

ABSTRACT OF THE DISCLOSURE

An imaging system for creating a three dimensional image of an object.

5 The imaging system includes a housing and three sets of light sources mounted to the housing. The light sources are selectively illuminated for projecting light on the object. A camera is spaced from the housing for capturing projected light reflecting from the object. A lens and a diffuser are mounted to the housing and are spaced from the light sources for focusing and blurring the projected light to define an image projected upon the object. A controller is connected to the light sources for sequentially illuminating the light sources to produce at least three different images on the object. The controller is also connected to the camera for controlling the camera to capture the different images for creating the three dimensional image of the object.